

ABSTRACT

5 An electrostatic chuck comprises a dielectric member comprising (i) a first layer comprising a semiconductive material, and (ii) a second layer over the first layer, the second layer comprising an insulative material. The insulative material has a higher electrical resistance than the semiconductive material. An electrode in the dielectric member is chargeable to generate an electrostatic force. The chuck is useful to hold substrates, such as semiconductor wafers, during their processing in plasma processes.